

Nice meeting you last week and thanks for being flexible on the dates so we could work it in with our other projects in Jackson.

Per our discussions on site, the electromagnetic (EM) signal did not carry through the pipe when connected to the pipe in the spring house. We also attempted EM induction and two-man sweep to attempt to get a signal on the line where the start of the hill occurs. Based on these details, I suspect the line is non-metallic shortly after the bend from the Spring House. Using ground penetrating radar (GPR) I could not detect the waterline; however, there was a "trench-like" response at various points going up the hill that are the most suspect for the waterline location. I flagged the painted most suspect locations for the waterline based on your operators' divination/dowsing/witching and where the GPR showed a slight "trench-like" response. These provide some options for potholing/daylighting

The water district operator and I did attempt to get an alignment of the waterline at the corner where it turns into the field at the top of the hill and the GPR was no longer able to provide a good response due to the silt/clay content increasing in the field. I flagged her locations that she marked and the most suspect responses from the GPR. We also attempted an two-man EM sweep that should work to locate the waterline if it was metal; however, we were not able to get any response (likely due to the pipe being non-metallic). I thought about using the acoustic locator at the Spring House to confirm the location; however, I think the distance is too far to get a good acoustic response from the Spring House.

Please let me know if you find the line to be metallic past the bend at the Spring House and we can try to induce a signal or use acoustic at an exposed section of pipe.